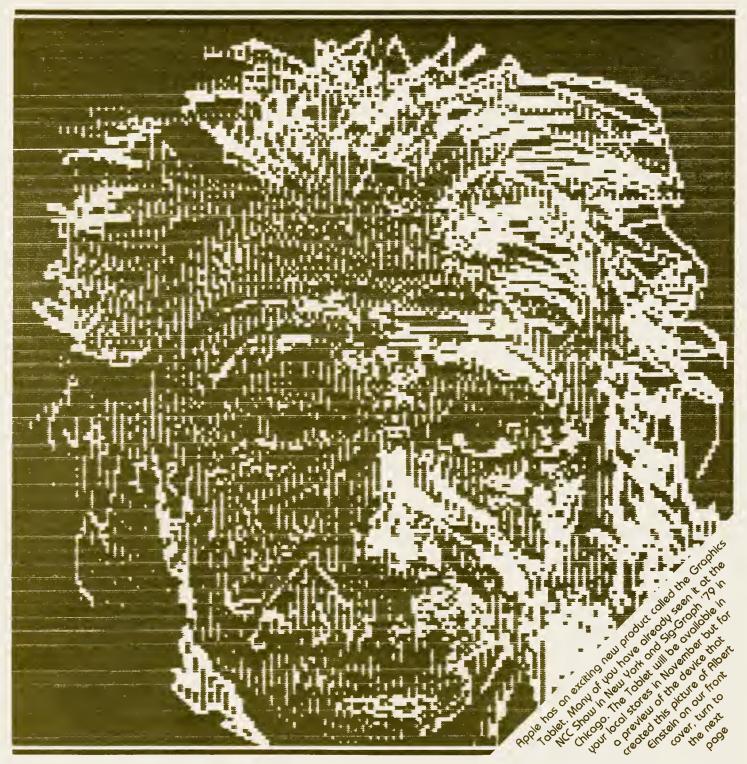
CONTACT 6

the user group newsletter for october 1979 dapple computer inc.



WHAT'S NEW, APPLE?

APPLE COMPUTER GRAPHICS TABLET

The Graphics Tablet allows the user to convert graphic data into digital information that may be processed by the Apple computer system. Shapes traced or drawn freehand on the tablet surface are instantly displayed on the system monitor. Once created, an image may be stored on the system disk for later retrieval and modification. Block diagrams, architectural renderings, logic diagrams, schematics, mechanical shapes and fine art are a few of the applications of the Graphics Tablet.

The Tablet system consists of 15-1/2 inch by 15-1/2 inch tablet (11 inch by 11 inch active surface area), a mylar overlay stylus, diskette software interface and documentation. Unlike other tablet systems, the electronics and power supply for the Apple Graphics Tablet are integrated with the Apple computer. This results in a low profile tablet, fewer boxes to contend with, easier hook up, and higher reliability.

The software support package is composed of a small assembly language fast draw routine and the master control software written in Applesoft BASIC. The fast draw routine is normally transparent to the user. It is activated by a call from the basic program and places the x-v coordinate pairs received from the interface into the data array specified by the calling program. Because this routine is written in assembly language, the system can process up to 120 coordinate pairs per second. This means that unlike other systems, the Apple Graphics Tablet will keep up with the fastest hand motion.

The primary user interface is provided by the Applesoft BASIC utility program. Macro functions,

selected by pressing the pen on the designated square on the tablet overlay, provide the user with a variety of utilities designed to decrease the amount of time required to complete the job.

Apple recognizes that these standard routines may not be optimum for every application. Since the standard software is written in BASIC the user may easily replace these functions with those written specifically for the intended application. The standard software package serves as an example of the way to expand or change the menu available on the tablet surface. A new mylar overlay is easily integrated into the tablet system using the menu alignment routine supplied with the system.

The interface provides the first level of support for the tablet. It relieves the user of many of the mundane calculations often necessary with less sophisticated systems. Cursor following (marking the position of the pen when it is proximate to the tablet surface with a cross hair cursor on the display), 0,0 coordinate origin positioning and scaling are all done with single commands to the interface. Only when the interface signals pen down is any action required of the host software.

Specifications

Digitizing area

- 11×11 inches (280 mm× 280 mm)

Overall size

 $-15.5 \times 15.5 \times 1$ inches (395 mm \times 395 mm \times 25 mm)

Controller card size

 $-7 \times 2.75 \times .5 \text{ inches}$ $(178 \text{ mm} \times 70 \text{ mm} \times 13 \text{ mm})$

Pen size

6 inches (152 mm) with 6 ft cable (1.8m)

Data rate

up to 120 coordinate pairs per second

Coordinate system

 absolute cartesian with selectable origin

Output format

 sixteen-bit binary coordinate pairs

Interface levels

TTL—provided by Apple interface

Scaling

- user selectable

Operating Modes -

Selectable from tablet menu:

Tablet modes

- RESET
- CLEAR
- WINDOW
- BG COLOR
- DELTA
- SOFT RESET
- VIEWPORT
- CALIBRATE
- REDUCER

Pen modes

- PEN COLOR
- DRAW
- LINES
- DOTS
- FRAME
- BOX

Command functions

- CATALOG
- LOAD
- SAVE
- SEPARATE
- SLIDE
- AREA
- DISTANCE

Power requirements (supplied from Apple power supply)

- 230 mA +5 VDC
- -40 mA + 12 VDC
- 20 mA −5 VDC
- 40 mA −12 VDC

Software/firmware

- Control program in Applesoft BASIC
- Quick draw routine in assembly language
- Interface firmware in ROM

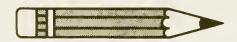
Minimum hardware requirements

- A2S1048 48K Apple II Plus or A2S0048 Apple II with A2B0009 Applesoft II firmware card
- A2M0004 disc drive with controller
- Black and white or color monitor order information
- A2M0029 from your local dealer

(More new items from Apple on page 7.)



EDITORIAL



FOR EDUCATORS...

The big news this issue is the establishment of the Apple Education Foundation, a not-for-profit corporation established by Apple Computer Inc. to further the development of education through microcomputer technology. The foundation has just reviewed the first group of applications for special project grants, and will be announcing the awards shortly.

The next deadline for submitting applications is December 10th.

Projects that emphasize the development of new instructional

By Roger Cutler Education Specialist

computing materials will receive priority consideration. Further details on the funding procedures may be obtained from:

Carolyn Stauffer, Administrator Apple Education Foundation 20605 Lazaneo Drive Cupertino, CA 95014

EPIC, the Education Program Information Center, is a special department of the Foundation that reviews and disseminates programs for the education community. Details can be obtained by writing Dr. Richard Ballard, EPIC Director, at the Foundation's address above.



OUTSIDE THE ORCHARD

(This column is written as a service to Apple customers, and contains information on products that we feel to be of interest to the user community. Apple Computer does not in any way recommend these products or warrant their suitability for use with Apple II or Apple II Plus Computers.)

10 MEGABYTES FOR YOUR APPLE

Remember when you got your disk? Finally, no more stacks of cassette tapes everywhere, no more waiting and waiting for tapes to load. But, since you have a disk you've thought of a dozen new uses for your Apple, so now you have stacks of little disks everywhere.

Well, there is a solution to your storage problem. No, it is not a disk filing system, although that might help. Corvus Systems has a 10 Megabyte fixed disk for the Apple. The system is compact, and you can attach four of them to your system.

The price is \$5390 for one, and \$3390 for an add-on disk.

Corvus Systems, Inc. 900 S. Winchester Blvd. San Jose, CA 95128 (408) 725-0920

SUPERTALKER

SuperTalker is a peripheral system for the APPLE II that allows you to digitize speech, then output high quality speech through a loud-speaker under program control.

SuperTalker consists of three major components: the SuperTalker peripheral card, a microphone, and a loudspeaker.

Price is \$279, assembled and tested, FOB, Santa Cruz, CA.

For more information, please write or call:

Mountain Hardware, Inc. 300 Harvey West Blvd. Santa Cruz, CA 95060 (408) 429-8600

HOME CONTROL

A new foreground/background system for home control called Apple Butler gives the APPLE II the capability of running two programs concurrently; one for the monitor and control of systems in your home, and one for any other task you care to do.

The Butler provides up to 16 analog inputs for temperature, light, moisture, or any other input data. Up to 32 switch inputs are provided for security or fire sensors, push buttons, magnetic reed switches, or on/off inputs or status indicators from controlled devices. Up to 32 output latches are available for control of output devices.

Several control modules will be available for the Apple Butler system. The first will be a system to control a solar water heater, a solar-assisted home heating system, a water-heating fireplace, or a combination of the three. Other systems are planned for control of automatic swimming pool equipment, sprinkler systems, home or commercial greenhouses.

The Apple Butler costs \$595 from your local APPLE dealer or from Home Computer Center, Inc., 2927 Virginia Beach, Virginia Beach, VA 23452, (804) 340-1977.

WRAPPLE YOUR APPLE

Protect your APPLE from dust, coffee spills and idle fingers with a WRAPPLE: a heavy duty, beige colored, vinyl dust cover. Or get the WRAPPLE II, a dust cover that will cover both the computer and one or two disk drives set on top of the computer. The WRAPPLE is \$8.95 and the WRAPPLE II is \$9.95.

To order, send check or money order to:

Henwood Enterprises, Inc. 1833 E. Crabtree Dr. Arlington Heights, IL 60004

Or call toll-free (800) 323-7360 and use your Master Charge, VISA or American Express credit card.

APPLE-80

Dann McCreary has announced APPLE-80, an 8080 simulator and debug package for the APPLE II. Now any 16K or larger APPLE II can run programs written for the 8080.

APPLE-80 executes all valid 8080 opcodes and provides single-step, trace and run modes. All 8080 registers are displayed on the APPLE screen and can easily be modified. 8080 I/O port addresses are arranged in a table for ease of modification. Up to eight break-points may be set to facilitate program debugging. 6502 subroutines may be called directly from 8080 programs and 6502 routines may be embedded in 6502 programs. Vectored interrupts are also simulated.

The complete APPLE-80 package includes APPLE-80, APPLE-80 Manual, an 8080 demo program, and an APPLE-80 Reference Card. Priced at \$20.00 + \$1.50 shipping and handling, APPLE-80 may be ordered from:

Dann McCreary Box 16435 — WA San Diego, CA 92116

California residents add 6% sales tax.

SUPERCHIP

SUPERCHIP is a firmware ROM that plugs directly into socket D0 on your APPLE II to provide enhanced 1/O.

With Superchip, your APPLE can display:

- Graphics and text freely mixed anywhere on the screen
- Full ASCII character set including lower-case letters
- 31 additional non-ASCII characters
- Reversed video on both input and output
- Rotated characters for vertical and upside-down printing
- Any character you can create in an 8×7 dot grid

When entering program statements or data, Superchip adds single keystroke editing capabilities to the APPLE:

- Move cursor up or down
- Clear the screen and home the cursor
- And more!

Superchip requires a minimum of 16K RAM (32K if you plan to also use Disk II) and supports the following functions:

- Integer BASIC
- Applesoft ROM card (RAM Applesoft is not supported)
- Printing through either the Serial or Parallel Interface Card
- A Character Editor, Disk II Interface and Text Editor are also available.

Prices are:

Superchip \$99.95 Character Edit Cassette \$19.95 Disk Interface Cassette \$19.95 Word Processor Cassette \$19.95

Shipping Charge (each) \$.75

From:

Eclectic Corp. 2830 Walnut Hill Lane Dallas, TX 75229

CARD READER

Now, all you need is a standard #2 pencil, a card, and the new MR-500 mark sense card reader to quickly and easily enter data into your APPLE.

Here's all you have to do. One—program the card by marking with the pencil. Two—feed the card into the reader slot. Three—the reader automatically turns on, the card is fed through, and data is entered into memory.

The MR-500 is lightweight, compact, and plugs right in to your APPLE.

Price is \$750. For details, write or phone:

Chatsworth Data Corp. 20710 Lassen Street Chatsworth, CA 91311 (213) 341-9200

EDITOR/ASSEMBLER

Software Concepts has announced an Editor/Assembler for the APPLE II.

The editor can create and modify integer BASIC, APPLESOFT, and assembler programs. Edit features include string search replacement, tabbing, block line moves, simple macros, and search windows.

The two-pass assembler can assemble up to ten disk-based source files and create a program listing and standard APPLE DISK II binary files. It uses eight character symbols, all standard 6502 opcode mnemonics, and has six additional pseudo opcodes. Operands may contain numeric parameters, symbols, and arithmetic expressions.

The price is \$55.00 from your local dealer or:

Software Concepts P.O. Box 1112 Cupertino, CA 95015

LOWER-CASE FOR YOUR APPLE

Both Integer BASIC and Applesoft II can manipulate the ASCII codes for lower-case letters in string variables, but until now there has been no efficient way to display the results on the screen. The Lower Case Adapter (LCA) solves this problem. Its features include:

- Plugs in with no modifications to the APPLE. Easily removed if warranty service is needed for either the APPLE or the LCA
- Displays lower-case letters with descenders
- Sample software included for use with either BASIC
- No memory overhead as with firmware and software methods that utilize APPLE's HI-RES graphics
- Fully compatible with Disk-II DOS
- Compatible with text editors from Applecations Unlimited and Programma
- Compatible with most printers that have lower-case



The Lower Case Adapter does not interfere with any existing features of the APPLE or any of the standard software or firmware.

Price is \$49.95. For more information, or to order write:

Dan Paymar P.O. Box A-133 S.C. 6800 Costa Mesa, CA 92627 or phone (714) 645-1411 after 6:30 p.m.

DISKETTE STORAGE

The SRW library cases provide minidiskette users with convenient and efficient access to floppies in envelopes. It is an excellent archival storage system with optimum protection against environmental conditions such as temperature, excessive humidity, moisture condensation and contaminants. The library case is an excellent safeguard for recorded information during shipping and storage.

For more information, see your local APPLE dealer or contact:

SRW Computer Components Company 18009-D ky Park Blvd. Irvine, CA 92714 (714) 557-7060

SELECTRIC INTERFACE

Looking for high-quality printing for your Apple? Then the Escon Interface System may be just what you need. By choosing one of the four available models, you can interface any Selectric to any micro or minicomputer.

There are no permanent modifications to make to your Selectric and it can still be used as a typewriter.

Prices are:

 \$100
 \$496.00

 Parallel
 \$525.00

 RS232
 \$549.00

 IEEE-488
 \$560.00

For more information, call or write:

Escon Products, Inc. 171 Mayhew Way, Suite 204 Pleasant Hill, CA 94523 (415) 935-4590



LOOKING AHEAD

Electronic Messages

It seems that the age of telephone communications has reached microcomputers. ABBS (Apple Bulletin Board Systems) are springing up all over. If your Apple has communication capability (a modem, etc.) then give one of these numbers a yell. If you have an ABBS, or know of one not listed here, drop us a note so that we can list it.

A.E.C.S.

Ft. Lauderdale, FL (305) 566-0805

AKRON DIGITAL GROUP

Akron, OH (216) 745-7855

COMPUTER COMPONENTS, INC.

Lawndale, CA (213) 370-3160

COMPUTER COMPONENTS, INC.

Westminster, CA (714) 989-1984

COMPUTER MERCHANT

San Diego, CA (714) 582-9557

COMPUTER MART

Springfield, MO (417) 862-7852

FORT WALTON BEACH

Destin, FL (904) 243-1257

HAWTHORNE

Hawthorne, CA (213) 675-8803

HOUSTON

Houston, TX (713) 977-7019

KORSMEYER ELECTRONICS

Huntington Beach, CA (714) 964-4346

MARINA DEL REY

Marina Del Rey, CA (213) 821-7369

MIAMI

Miami, FL (305) 821-7369

NEW YORK

Long Island, NY (212) 448-6576

PEOPLES' MESSAGE SYSTEM

Santee, CA (714) 449-5689

PERIPHERALS UNLIMITED, INC.

Signal Hill, CA (213) 424-3506

PERSONAL COMPUTERS OF CHICAGO

Chicago, IL (312) 337-6631

SAN ANTONIO

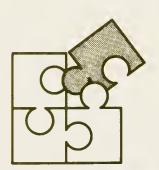
San Antonio, TX (512) 657-0779

SAN FERNANDO VALLEY

Canoga Park, CA (213) 340-0135

SAN FRANCISCO

San Francisco, CA (415) 668-4246

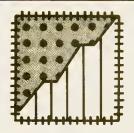


BITS AND PIECES

INVISIBLE WRITING

Some programs using HIRES graphics require the ability to plot on one page of graphics while displaying the other. This really isn't hard, in fact just a POKE will do it for you. (Note that before this will work you must use a HGR or an HGR2 command to initialize HIRES.)

To change the page HPLOTted to, POKE 230,32 for page 1, and POKE 230,64 for page 2. This has no effect on which page is displayed, but changing that is just as simple. POKE -16300,0 to display page 1, or POKE -16299,0 to display page 2.



PATCHES AND PROGRESS

DOS Update for Dual Drive Users

DOS 3.2 has been shipping for some time now and, we are happy to report, has been remarkably bug-free. However, DOS users with two DISK II's on a single controller have reported problems. These problems usually manifested themselves as seemingly random "DISK I/O ERRORS." Often the copy program would fail outright or create a diskette that was unreadable. Since this was a sporadic problem, it was very difficult to track down.

What was found was that the read/write head was not always where DOS thought it was. Although DOS deselects a drive before seeking on the other drive, and the deselect is supposed to shut down the drive electronics, a filter capacitor on the drive has the effect of keeping the drive enabled for about 100 milliseconds after deselect. Thus, when reading and writing alternately to both drives, the head of the previously accessed drive can sometimes step itself as much as half a track off, while the other drive is stepping normally. When the drive is reselected to operate on the same track, DOS still trusts the head to be where it was, and this leads to the I/O errors. The solution we implemented was to wait 100 milliseconds before seeking, when the drive is powered up. Since powerup and seek time is substantial compared to the 100 millisecond delay, there is no loss in performance. Additionally, the copy

program has been changed to verify that each track is properly duplicated (this makes it slower but more reliable).

Congratulations to the lab engineers who found this elusive problem. Now comes the most important part, getting this correction out to you.

To do this, we have created a revision of DOS 3.2 entitled, appropriately enough, DOS 3.2.1. Your local Apple Level 1 Service Center now has a copy of this new release which works with both the Standard (Integer) and Plus (Applesoft) versions. It contains revised versions of the following:

- 1. DOS 3.2.1
- 2. Update 3.2.1
- 3. Copy

We suggest that Apple users operating two disks on the same controller obtain this version. For users with one disk, or with disks on separate controllers, there is no problem, and therefore, no need to get the change.

To get your current DOS 3.2 Diskette updated to 3.2.1, simply bring it to your local Level 1 Service Center (Note: you must bring the original master diskette, the one with the Apple DOS Label on it.) The Dealer will process your diskette, updating it with the versions listed above, and return it to you. Every effort will be made to do this within 24 hours of the time you bring it in. That's all there is to it. In the event that there is no convenient way for you to get your diskette to your Dealer's Service Center, you may mail it (be sure to pack it securely) to our Cupertino Service Facility. The address is:

Apple Computer Service, 20605 Lazaneo Drive, Cupertino, California 95014, Attention: DOS Update.

The updated disk will be mailed back as soon as possible.

Note: Nothing in this revision changes the documentation in the DOS 3.2 — Do's and Don'ts of DOS manual (A2L0012). It's still current and will remain current for any 3.2 series DOS release.

ERRATA

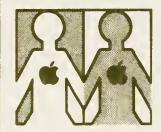
In CONTACT 4 we gave you an incorrect telephone number for Interactive Structures, Inc., the people who make an analog input card for the APPLE II. The correct number is (215) 382-8296.

A couple of the Local User Groups listed in CONTACT 5 were wrong. They should be:

MARYLAND APPLE II USERS GROUP

Computer Unlimited, Inc. 907 York Road Towson, MD 21204 Kevin Parks (301) 321-1553

WISCONSIN APPLE USERS c/o Cybernetic Mechanism P.O. Box 11463 Milwaukee, WI 53211 Ken Blochowiak (414) 964-6645



LOCAL USER GROUPS

Here is the new list of latest APPLE II User Groups. If we still don't have your group in our files, write or call us.

BRITISH COLUMBIA

APPLE BRITISH COLUMBIA Ralph Dawson 2922 East 25 Ave. Vancouver, B.C.

CALIFORNIA

APPLE USERS GROUP c/o Computerland 1815 Ygnacio Valley Rd. Walnut Creek, CA 94596

BYTE SHOP 4 West Mission St. Santa Barbara, CA 93101 (805) 966-2638

Christmas Catalog



Christmas Catalog



Let your creativity flow and experience the adventure of adding

a whole new dimension to your Apple.

The Graphics Tablet opens up unique new applications by allowing you to conveniently enter graphic information. Using the tablet and stylus, you merely trace or freehand shapes to convert them to digital information and display them on the monitor. You can then store, recall, manipulate, and show off these images with the tablet system. This means that you can now create or revise: Maps, Charts, Photos, Schematics, Animations, Architectural renderings, or Freehand sketches, and the list goes on and on.

Ideal for serious applications, family fun and artistic enrichment.

Discover the total capabilities of this remarkable new peripheral with a demonstration at your local Apple dealer. Suggested Retail — \$795.00

Apple
Language System with Pascal
...A Legacy of
Languages

Increase your software productivity with Pascal, today's most sophisticated structured programming language. You'll find that complex ap-

efforts with a powerful text editor, assembler, linker. and comprehensive file handling commands. It is the ideal tool for the sophisticated programmer.

Just add the plug-in card to any 48k RAM Apple and you have Integer BASIC, Applesoft Extended BASIC, and Pascal at your command. So you can put this important new tool to work for you, with-



plications go together more quickly, run faster, and are more maintainable than equivalent programs in BASIC.

Apple Pascal is more than a language. It is a comprehensive system that supports your out giving up the ability to develop and run programs in the BASIC language environment. Suggested Retail — \$495.00

Integer BASIC ROM Card

...for the Apple II
Plus

Help yourself to the extensive library of Integer BASIC programs with this low cost, plug-in card. You'll have pushbutton access to both Integer and Applesoff BASIC, without giving up valuable user memory space.

The card offers you more than just a high-speed version of BASIC. It comes with Programmer's Aid #1: a firmware package of highresolution graphics, utility, and diagnostic routines. And it offers a special bonus for assembly language programmers with its inclusion of the standard monitor ROM (which offers machine language TRACE and SINGLE-STEP capabilities not present in the Apple II Plus Auto-Start ROM).

The Integer BASIC ROM Card is a great way to upgrade the capabilities of your Apple II Plus before you're ready to move all the way All Apple owners
can now take advantage of the OneYear Extended Warranty which covers
all Applemanufactured
hardware plus
system software.

The corner stone of the program is fast,

into the Language System with Pascal. Suggested Retail — \$200,00

One Year Extended Warranty ...An Ounce of Prevention

Apple reliability is well known. Now, with the Extended Warranty, Apple Computer goes that extra distance to protect your investment against costly repairs and frustrating downtime.

personalized service performed locally and fully backed by Apple.

Over 400 Level I Service Centers have been established to keep all repair work as close to you as possible. Each Level I Service Center maintains a parts inventory and in 90% of the cases, we can promise one-day service. In some cases, the work can be completed while you wait.

The One-Year Extended Warranty is available for only \$195.00. That's about 50¢ a day and includes all Apple peripherals. This is the lowest cost program of its kind in the industry.

The Extended Warranty is even available to systems already in use, for a \$25 additional diagnostic fee.



Stocking Stuffers

Family Fun

Apple-Bowl

An exciting game of skill. Test your ability with this 3-D Hi-Res Graphic simulation of a bowling alley. The computer motion of the ball and pins is derived from the law of physics. All conditions, such as the direction, speed, spin and weight of the ball and pins are included with the ball's position. They realistically determine the correct fall of the pins, and resulting score. Suaaested Retail – \$15.00.

Microchess

thoughtful game. It

is also a patient instructor, avail-

ing to play chess,

your chess skills.

\$25.00.

Microchess is a tireless opponent, always ready for a quick game of speed chess, or a slow

Education

The Shell Games

A collection of four super programs for educational enrichment. Programs Include:

Match Machine

Displays two columns of words that match. One of the columns is scrambled. Your job is to straighten them out.

Professor True

A true / false auiz at its finest, Professor True will ask interesting questions and then tell you something more about it.

The Animated Apple

The intriguing story of how Apple grew from a tiny flower... See it all in this engrossing cartoon.

Mr. Multiple

You guessed it ... multiple

Clishuare THE SHELL GAMES

Utilities

Apple Writer

An efficient new text editor that combines many of the features of expensive word processors at a fraction of the price. Apple Writer is a character-oriented text editor that makes entry and editing effortless. Suggested Retail -\$75,00.

Applepost

A convenient Data Base System that provides easy entry and editing of names, addresses, and phone numbers for creation of mailing lists or personal address directories...it can even search phone-tical-Iv. Stores 500 names per diskette. Suggested Retail — \$49.95

Contact your local Apple Computer Dealer for a demonstration or additional information on our full product

able at any time to assist you in learnor help you practice Suggested Retail -

choice questions on contemporary folklore and littleknown facts ... and with its built-in editor, you can make up your own questions. Suggested retail -\$29.95



CAROLINA

CAROLINA APPLE CORE Wilbur Andrews 5212 Inglewood Ln. Raleigh, NC 27609 (919) 787-3509

CONNECTICUT

APPLELIST 55 Pardee Place New Haven, CN 06515 Marc Goldfarb (203) 562-4907 (work) (203) 397-1407 (home)

FLORIDA

MIAMI APPLE USERS GROUP c/o David Hall, Sec. 2300 N.W. 135th St. Miami, FL 33167

THE APPLE COMPUTER ENJOYMENT SOCIETY 671 NE 56th Street Fort Lauderdale, FL 33334 (305) 772-4768

KANSAS

APPLEBUTTER 10049 Santa Fe Dr. Overland Park, KS 66212 (Last Wed. each month)

LOUISIANA

The B.R.A.N.C.H.
(BATON ROUGE APPLE NETWORK
OF COMPUTER HOBBYISTS)
4661 Tupello St.
Baton Rouge, LA 70808
(504) 924-0636
Allen Simpson

MICHIGAN

THE MICHIGAN APPLE Computer Club 32905 W. 12 Mile Rd. Suite 320 Farmington Hills, MI 48018 (313) 979-5298

MISSOURI

APPLE JACKS c/o Odel Small P.O. 24202 St. Louis, MO 63130

MICRO & PERSONAL COMPUTER CLUB OF ST. LOUIS Futureworld, Inc. 12304 Manchester Rd. St. Louis, MO 63131 (314) 965-4540

NEW YORK

THE MID HUDSON APPLE CORE ASD Office Systems Rt. 55 — Vanwyck Plaza Poughkeepsie, NY 12603

APPLE BYTER'S CORP.
Buffalo Saving Bank
Sheridan-Harlem Branch,
Community Room
3980 Sheridan Dr.
Amherst, NY 14226
(3rd Fri. each month)

NEW JERSEY

APPLE USERS GROUP c/o Computer Encounter 2 Nassau St. Princeton, NJ 08540 (609) 924-8757

OHIO

DAYTON AREA APPLE USERS GROUP c/o Computer Solutions 1932 Brown Street Dayton, OH 45409

PENNSYLVANIA

THE COMPUTER HOUSE 1000 Greentree Rd. Pittsburgh, PA 15220 (412) 921-1333

VIRGINIA

S.E. VIRGINIA APPLE ORCHARD George Guild Jr. 117 Cardinal Drive Hampton, VA 23664 (804) 850-0626 (home) (804) 764-7081 (work)

WISCONSIN

ADAM & EVE, APPLE II USERS' GROUP 11 S. Handcock St. Madison, WI 53703 (608) 256-5306

WHAT'S NEW, APPLE? (cont'd)

APPLE WRITER: A New Way to Write from Apple Computer Inc.

Discover Apple Computer's new way to be more creative and efficient at practically anything you write. The Apple Writer uses all the advantages of the Apple computer and that saves you time. This new product accomplishes typographical error correction, file editing and document revisions quickly with minimal effort. That's important to any creative thinker.

By entering text on the keyboard of the Apple Computer, you see it displayed on the monitor. Easy retrieval of your files from the diskettes, allows for effortless text corrections or revisions.

Features

Character-oriented rather than line-oriented text editing permits easier editing.

Editing feature permits three methods of deletion of text (character, word and paragraph) and two methods of insertion of text (character and file). Cursor Control Mode allows easy movement throughout the text. Moves blocks of text within a document, two easy ways.

Stores documents easily on floppy disks with up to 95 pages of text per diskette. Any length document can be printed using the load and continue printing feature.

Allows partial documents to be saved to separate disk files, and recalled later for insertion into other documents.

Printer Commands include: left or right justify, fill-justify or centering. Also sets left, right, top and bottom margins; line length of page, line spacing, page numbering and page heading. Many of these commands may be embedded on your text allowing dynamic formatting.

Recovers automatically from system errors to protect documents.

Permits check of length of unused working file space (document in memory).

Permits use of DOS commands from editor, allowing you to catalog or delete files stored on diskette.

Has Global search and replace, allowing replacement of any characters or words throughout a document.

Displays up to 24 lines of 40 characters of text, with upper case shown as inverse characters.

Minimum Hardware Requirements

Apple II or Apple II Plus with 48K RAM

One Disk II required (second drive optional)

Monitor or TV Screen

Apple Writer has too many features to explain here. Ask your dealer for a demonstration. Suggested Retail Price is \$75.00.



Dollars and Cents

This program (and the subroutine at lines 2000 through 2060) will format your numeric output into a "Dollars and Cents" format. It's simple and fairly fast. An advantage to using this subroutine is that it does very little string manipulation. This means that the dreaded "garbage collection" will occur less often than with other methods!

ILIST

100	REM PRINT USING
110 120	
130	*****
	REM AUG 79
150	
160	
170	
1/0	KLH
180	LET N = 2: REM SET NUMBER
190	REM OF DECIMALS
200	LET S = 5: REM SET FIELD
210	REM WIDTH
220	HOME
230	FOR $X = -5 TO 5 STEP .501$
240	PRINT X, "\$";
250	GDSUB 2000
260	PRINT
270	NEXT X
280	PRINT
290	PRINT "UNFORMATTED FORMA
	TTED"
300	END
1000	REM THIS IS THE FORMATTING
1010	REM SUBROUTINE. THE INPUT
1020	REM IS 'X', 'N', AND 'S'
1030	REM X IS THE NUMBER TO BE
1040	REM BE PRINTED
1050	REM N IS THE NUMBER OF
1060	
1070	REM S IS THE WIDTH OF THE
1080	REM RIGHT JUSTIFIED
1090	REM PRINTING FIELD
1100	REM

 $10 ^N + .5))$

STR\$ (INT (X *

```
2010 Q =
         LEN (X\$) - (VAL(X\$) <
    0)
2020
     PRINT
             SPC(S-Q*(Q>N+
     1) - (N + 2) * (0 <
     ));
2030
     PRINT
             MID$ (X$,1 + ( VAL (
    X$) < Q), (Q < = N) + (Q - N)
     ) * (Q > N));
            MID$ ("0.00",1 + ((N
2040
     PRINT
      +1) < 0), 1 + (N - 0 + 2) *
     (Q < N + 2));
2050
     PRINT
            RIGHT$ (X$,N * (Q >
    N) + (Q - 1) * (Q < = N));
2090
    RETURN
```

7

Literal Input

Here is another GC (garbage collection) forestaller with some nice additional benefits. It allows you to enter commas, quotes and colons into Applesoft without getting an "EXTRA IGNORED" error for your efforts and works just as well for either keyboard or disk input. Here's what it does.

- Line 100 defines a string variable at a known memory location. (This name can be anything you wish. We just happened to use IN\$.)
- Lines 220-290 poke a short machine language routine into page 3 of your Apple's memory. This routine changes the pointer to the string in memory to point at the Input Buffer (\$200).
- Line 350 calls the new input routine and the MID\$ function moves a copy of the new string into main memory so that it isn't overwritten by the next input.

Here's a cute trick for using this routine with random access disk files. Say your program is reading a file for the third field in each record. Using this routine, the syntax for that would be:

CALL 768: CALL 768: CALL 768: IN\$ = MID\$(IN\$,1)

The first two calls are dummy INPUTs but, unlike the normal DOS "INPUT IN\$" command, perform no string operations.

Try it. You'll like it.

ILIST

100	LET	IN\$ = "X"
110	TEXT	r : HOME
120	REM	
130	REM	THE FIRST VARIABLE
140	REM	DEFINED MUST BE A STRING
150	REM	THIS STRING WILL REC'VE
160	REM	INPUT FROM THE CALL
170	REM	

180 REM THIS POKES THE INPUT JLIST 190 REM SIMULATOR ROUTINE 200 REM INTO MEMORY... DATA ZERO 0 210 REM 1 DATA ONE 220 FOR J = 768 TO 7882 DATA TWO 230 READ I 3 DATA THREE 240 4 POKE J, I DATA FOUR 250 NEXT J 5 DATA FIVE 260 DATA 162, 0, 32, 117, 253, 160, 2 6 DATA SIX DATA 138, 145, 105, 200, 169, 0 270 7 DATA SEVEN 580 DATA 145, 105, 200, 169, 2, 145 8 DATA EIGHT 290 DATA 105, 96 9 DATA NINE 300 REM 10 REM REM THESE ARE THE DATA LINES 310 REM NOW TO USE IT! 11 320 REM 12 REM PRINT "TYPE IN ANY CHARACTER 330 1000 REM THESE POKES ENTER THE S YOU WISH: " 1010 REM RESTORE PROGRAM INTO 340 1020 PRINT REM MEMORY 350 CALL 768: IN\$ = 1025 MID\$ (IN\$,1) REM 1030 POKE 768, 201: POKE 769, 82: POKE 360 REM 770,208: POKE 771,38: POKE 7 370 REM THIS IS AN "INPUT IN\$" 72,32: POKE 773,177: POKE 77 380 REM BUT IGNORES ", " & ": " 4,0: POKE 775,32: PCKE 776,1 390 REM 03: 400 PRINT 1040 POKE 777, 221: POKE 778, 32: POKE 410 PRINT "AND HERE'S WHAT YOU T 779,82: POKE 780,231: POKE 7 YPED IN: " 81,32: POKE 782,26: POKE 783 420 PRINT : PRINT IN\$,214: POKE 784,144: POKE 785 430 PRINT . 8: PRINT "NOTE THAT EVEN QUOTES 440 1050 POKE 786, 160: POKE 787, 4: POKE , COMMAS AND" 788,177: POKE 789,155: POKE 450 PRINT "COLONS GET THROUGH UN 790,201: POKE 791,131: POKE SCATHED. " 792,240: POKE 793,3: POKE 79 460 PRINT : PRINT "NOW LET'S WRI 4,76: TE IT TO THE DISK. " 1060 POKE 795, 124: POKE 796, 217: 470 PRINT CHR\$ (4)"OPEN TEMP" POKE 797, 165: POKE 798, 155: 480 PRINT CHR\$ (4) "WRITE TEMP" POKE 799, 164: POKE 800, 156: 490 PRINT INS POKE 801, 56: POKE 802, 233: POKE 500 PRINT CHR\$ (4)"CLOSE" 803,1: 510 PRINT : PRINT "AND READ IT B 1070 POKE 804,32: POKE 805,80: POKE ACK IN..." 806,216: POKE 807,76: POKE 8 LET IN\$ = " " 520 08,166: POKE 809,217: POKE 8 CHR\$ (4)"OPEN TEMP" 10,96 530 PRINT 540 CHR\$ (4)"READ TEMP" 1075 REM PRINT CALL 768: IN\$ = MID\$ (IN\$,1)1076 REM THESE POKES SET '&' TO 550 1077 REM JUMP TO THE RESTORE PRINT CHR\$ (4)"CLOSE" 1078 560 REM PROGRAM 570 PRINT : PRINT IN\$ 1079 REM PRINT : PRINT "TA-DAA!!": END 1080 POKE 1013, 76: POKE 1014, 0: POKE 580 1015, 3 1084 REM 1085 REM THESE POKES ENTER THE 3 1086 REM ONERR FIX FROM PAGE 82 1087 REM INTO MEMORY Restore to Line Number 1088 REM

1090

We've had some questions from people asking how to do a RESTORE statement to a particular line number. It's really not too difficult. The next program is a quick demonstration of how to do this. POKE 810, 104: POKE 811, 168:

POKE 812, 104: POKE 813, 166:

POKE 814, 223: POKE 815, 154:

POKE 816,72: POKE 817,72: POKE



818,152: POKE 819,72: POKE 8	ILIST
2000 REM	100 REM THIS PROGRAM FIGURES
2010 REM SET UP ONERR AND START	110 REM OUT WHAT CARDS YOUR
2020 REM THE MAIN PROGRAM	120 REM APPLE HAS IN WHICH
2030 REM	130 REM PERPHERIAL SLOT.
2040 ONERR GOTO 3030	140 REM
2050 LIST 0 - 9	150 REM THIS IS DONE BY THE
2060 INPUT "WHICH LINE DO YOU WA	160 REM PROGRAM LOOKING AT
NT ?"; LN	170 REM THE CODE IN AN ON-
2070 % RLN 2080 REM 2090 REM LINE 1130 IS DOES A	180 REM BOARD ROM AND DOING 190 REM A QUICK CHECK ON A
2100 REM (RESTORE TO LINE LN'	200 REM FEW BYTES 210 REM 220 TEXT : HOME : PRINT : PRINT
2120 READ A\$ 2130 PRINT	" SYSTEM CONFIGURATION (CONFIG)": PRINT
2140 PRINT "AND THE DATA IS"	230 DIM S5(4), S7(4): DISK = 1: COM = 2: SERIAL = 3: PTR = 4
2150 PRINT	240 DATA 3,60,24,56,56,24,72,72
2160 GOTO 2050: REM DO IT AGAIN	250 FOR I = DISK TO PTR: READ S5
3000 REM	(I),S7(I): NEXT
3010 REM ERROR HANDLER	260 DIM NA\$(4)
3011 REM	270 LET NA\$(DISK) = "DISK CONTRO
3012 REM '%' ALONE EXECUTES THE	LLER"
3013 REM ONERR FIX	280 LET NA\$(COM) = "COMMUNICATIONS
3020 REM 3030 IF PEEK (222) = 90 THEN PRINT	280 LET NA\$(COM) = "COMMUNICATIONS 290 LET NA\$(SERIAL) = "H. S. SER IAL"
: PRINT "THAT'S NOT A DATA L	300 LET NA\$(PTR) = "PARALLEL PRI
INE!"; CHR\$ (7): % : GOTO 20	NTER"
50	310 DIM CS(2)
3040 REM	320 LET C100 = 49408
3050 REM THIS IS FOR	330 LET C700 = 50944
3060 REM UNDEFINED STATEMENT	340 FOR S = C100 TO C700 STEP 256
3070 REM	350 FOR K = 0 TO 2
3080 IF PEEK (222) = 254 THEN PRINT	360 LET CS(K) = 0
: PRINT "TRY TYPING A NUMBER	370 FOR I = 0 TO 255 STEP 8
!"; CHR\$ (7): % : GOTO 2050	380 LET CS(K) = CS(K) + PEEK (S
3090 REM 3100 REM THIS IS FOR 3110 REM BAD RESPONSE TO INPUT	+ I) 390 NEXT: NEXT
3110 REM BAD RESPONSE TO INPUT	400 IF CS(0) < > CS(1) OR CS(1)
3120 REM	< > CS(2) OR CS(2) < 256 OR
3130 REM IF NOT ONE OF THE	CS(0) < 256 OR CS(1) < 256 THE
3140 REM ABOVE ERRORS THEN END	470
3150 END	410 PRINT "SLOT NO. "(S - 49152)
3	/ 256" HAS A"; 420 FOR I = DISK TO PTR
What's In This System, Anyway?	430 IF PEEK (S + 5) = S5(I) AND PEEK (S + 7) = S7(I) THEN PRINT " "NA\$(I);: I = 99
This last program (CONFIG), does a quick look at the machine language code, if any, located in your	440 NEXT I 450 IF I = 5 THEN PRINT "N UNKN
Apple's I/O slots. Since this code is different for each	OWN";

peripheral, it's possible to tell just what interface card is in a particular slot.

The bytes being read are \$Cn05 and \$Cn07, where n is the slot number. For instance, these bytes both contain \$48 (72 decimal) for an Apple Parallel Printer Interface.

470 PRINT "SLOT NO. "(S - 49152) / 256" IS EMPTY"

480 NEXT : END

1

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Dear Apple Computer Us

We are in the process of updating the Apple Customer List. If you wish to continue receiving our CONTACT Newsletter and our other mailings, please fill out the questionnaire below and return to us by January 1, 1980. Simply tear this page out and mail it back to us. No postage is necessary. Be sure to fold page in half before mailing. Thank you for your cooperation.

	Fold Here M59	-1079
1.	Do you still own your Apple Computer? Yes No	
2.	Have you upgraded the memory in your apple? Yes No If yes, from K to K	
3.	Per label at the top of this card, is the serial number of your system recorded correctly? (Control bottom of the outside case of your Apple.) If not, please complete the following: APPLE II (A2S1) APPLE II PLUS (A2S2)	heck the
4.	How many disk drives (if any) are on your system? Please list your Disk Drive Serial Numbers:	
5.	Is your correct address shown on the above label? If not, please enter new address:	
6.	Which of the following Apple peripherals did you: a) buy with your Apple Computer b) buy at a later time c) are considering APPLESOFT ROM Card Integer ROM Card Autostart ROM PASCAL Language Prog. Aid # Comm. Interface Printer Interface Hobby Card Serial Interface Calendar Clock Card	

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